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Date: December 15, 2006

Name: Agata Glinska
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Atty Ref: 101221-651

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO. : 10/678,408
APPLICANT : Thomas J. Karol et al.
FILED : October 2, 2003
FOR : Synergistic Organoborate Compositions and Lubricating Compositions Containing Same
ART UNIT : 1764
EXAMINER : Ellen M. McAvoy

Hon. Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 C.F.R. 1.132

I, Steven G. Donnelly, hereby declare as follows:

I am a named inventor in the above-referenced application no. 10/678,408.

I am a US citizen residing in Bethel, CT.

I requested and oversaw the conducting of experiments set forth in detail in the attached Tables, and have reviewed the results in detail. The experiments are an extension of Tables 1 through 4 of the specification, wherein Samples A through S represent the new data. The protocol and testing methods follow those as originally disclosed, unless stated otherwise herein. I verify that the results are true and accurate.

TABLE 1: OCD-289 With Other Additives Falex Pin & Vee Block Performance
Base: Uninap 100SD

	<u>Mass Percent</u>												
	1	2	3	4	5	6	7	8	9	A	B	10	11
OCD-289	1.0						0.5	0.9	0.1	1.5	0.1	0.5	
LZ 1395 (ZDDP)		1.06		1.5	2.0	5.0	0.5	0.1	0.9	0.1	1.5		0.5
OD-896B			1.0										
% Phosphorus	0	0.10	0	0.14	0.19	0.47	.047	.009	0.08	0.009	0.142	0	.047
Falex Pin & Vee Block (500 lb 60 Minutes)													
Duration min. s = seconds	60	7s (5s)	19s (15s)	13s	15s	47	60	60	60	60	60	40	2s
		FAIL	FAIL	FAIL	FAIL	FAIL						FAIL	FAIL
Mass Loss, mg	23.0*	4.6 (69.6)	31 (275)	44.8	221	396	2.8	7.5	23.3	13.7	8.6	339	3.3

() = Duplicate Test; * Average of Twenty-one tests (Range 8.7 – 60.8 mg)

Table 2

	<u>Mass Percent</u>								
	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>16</u>	<u>17</u>
OCD-289		0.5	0.9	0.1	1.5	0.1		0.2	0.3
Vanlube 871	1.0	0.5	0.1	0.9	0.1	1.5	1.6	0.8	0.7
% Phosphorus	0	0	0	0	0	0	0	0	0
Falex Pin & Vee Block (500 lb 60 Minutes)									
Duration, min. s = seconds	48s	60	60	25s	60	60	60	1	60
	FAIL			FAIL				FAIL	
Mass Loss, mg	361	3.9	3.2	315	10.1	3.9	88	412	7.2

s = Seconds

Tests that ran under 60 minutes had excessive wear or high torque. Load could not be maintained.

file 3

	Mass Percent												
	18	19	20	21	22	23	24	25	26	27	28		
D-289	0.5	1.5	0.1		0.5	0.9	0.1	1.5	0.1	1.6	0.1	0.5	0.5
Irran 822	1.0	0.5	0.1	1.5								0.5	
Irran 835			1.0	0.5	0.1	0.9	0.1	1.5	1.6	0.1	1.5		
nitrate AZ 30%													
lure													
Naphthalene (6-NDA)													
Phosphorous	0	0	0	0	0	0	0	0	0	0	0	0	0
Ex Pin & Vee atk (500 lb min)													
ratio, min. seconds	16s	60	60	60	60	60	60	60	60	60	60	60	7
fail													
S Loss, mg	287	3.9	6.2	39.4	24.4	31.1	16.1	22.2	25.4	1.7	8.3		
Ex Pin & Vee atk (500 lb Min)													
ratio, min.													
S Loss, mg													

Table 4

		Mass Percent										R	S				
		1	29	30	31	32	N	O	P	33	34	35	36	37	Q	R	S
OCD-2B9		1.0	0.5	0.9	0.1	1.5	0.1	0.1	0.2	0.5	0.9	0.1	1.5	0.1			
Vanlube 7723		1.0	0.5	0.1	0.9	0.1	1.5	1.6	0.8								
Vanlube 7611M										1.0	0.5	0.1	0.9	0.1	1.5	1.6	
% Phosphorus		0	0	0	0	0	0	0	0	0.06	0.03	0.006	0.05	0.006	0.083	0.083	
Falk Pin & Vec Block (500 lb 60 Minutes)																	
Duration, min.		60	31	60	60	4	60	60	30	60	23	60	60	60	60	60	
Mass Loss mg		23.0	147.6	25.0	17.8	436.8	11.8	69.9	1.518	63.3	126.9	9.6	13.2	23.3	0.3	2.3	

* Average of Twenty-one tests (Range: 8.7 - 60.8 mg)

Tests that ran under 60 minutes had excessive wear or high torque. Load could not be maintained.

I submit this declaration in support of the above-referenced application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dec. 14, 2006

Date

Steven G. Donnelly

Steven G. Donnelly